

ROBOBOAT

Team Time #3



Date

4 February 2026

Website

roboboat.org

RoboBoat 2026

February 19-24, 2026

**Nathan Benderson Park
Sarasota, Florida, USA**

**Only 15 days
until Day 1 of
RoboBoat 2026!**

**Are You
Ready?!**



AGENDA

Edit your name to “Name | Team Name”
For example: John | University of RoboNation

EVENT REMINDERS

When you arrive in Sarasota...

AUTONOMY CHALLENGE & SCORING

Overview of autonomy challenge scoring.

QUESTIONS?



Questions? Submit on Discord.

37 TEAMS

MEET THE TEAMS

10 COUNTRIES

13 FIRST-YEAR TEAMS

 ADANA ALPARSLAN TÜRKES SCIENCE AND TECHNOLOGY UNIVERSITY	 DREAMS OF BANGLADESH	 JAMES MARTIN HIGH SCHOOL	 MILITARY TECHNICAL COLLEGE	 TURKISH NAVAL ACADEMY
 ADVANCING SCIENCE TECHNOLOGY AND ART	 EMBRY-RIDDLE AERONAUTICAL UNIVERSITY	 FLORIDA ATLANTIC UNIVERSITY	 NAVIER USN	 UNIVERSITAS SEBELAS MARET
 AGH UNIVERSITY OF KRAKOW	 FLORIDA STATE UNIVERSITY (PANAMA CITY)	 KONYA TEKNIK UNIVERSITESI	 PIRI REIS UNIVERSITY/PRU-İDA	 UNIVERSITY OF CENTRAL FLORIDA/ HAGERTY HIGH SCHOOL
 ALANYA ALAADDIN KEYKUBAT UNIVERSITY	 BEAVER COUNTY DAY SCHOOL	 GDAŃSK UNIVERSITY OF TECHNOLOGY	 KYUSHU INSTITUTE OF TECHNOLOGY	 UNIVERSITY OF LOUISIANA AT LAFAYETTE
 BENEDICT COLLEGE	 GEORGIA INSTITUTE OF TECHNOLOGY	 HUMBER POLYTECHNIC	 LAKE SUPERIOR STATE UNIVERSITY	 UNIVERSITY OF MICHIGAN
 CALIBRATOR - Z	 INSTITUT TEKNOLOGI SEPULUH NOPEMBER	 MASSACHUSETTS INSTITUTE OF TECHNOLOGY	 TECH AUTOCRATS	 UNIVERSITY OF PITTSBURGH
 CORNELL UNIVERSITY	 MEMORIAL UNIVERSITY OF NEWFOUNDLAND	 TECNOLÓGICO DE MONTERREY		 UNIVERSITY OF PUERTO RICO-MAYAGUEZ

AGENDA

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Overview of autonomy challenge and scoring.

QUESTIONS?



Questions? Submit on Discord.

on-site contacts in case of emergency...

**Cheri
Koch**

Senior Events
Manager

(850) 642-0536
ckoch@robonation.org



**Julianna
Smith**

Program Operations
Director

(571) 239-9345
jsmith@robonation.org



**Hi-Vis
Vests**

Need something quick?
Find an orange vest!



THURSDAY SCHEDULE

Day 1, February 19



Event	Time	Location
Team Check-In	12:30 pm - 1:00 pm	NBP - Finish Tower
Team Orientation	1:00 pm - 2:00 pm	NBP - Finish Tower
Team Networking	2:00 pm - 3:00 pm	NBP - Team Village
Team Village Open Safety Checks Begin	2:00 pm - 5:00 pm	NBP - Team Village
Kayak Training	3:00 pm - 4:00 pm	NBP - Team Village
Mandatory Team Meeting	5:00 pm - 5:30 pm	NBP - Team Village
Team Village Closes	5:30 pm	
Overnight Pool Testing	10:00 pm - 2:00 am	Hotel Pool

KAYAK TRAINING

Thursday, 3 pm

What to Expect:

► RoboBoat Observation / Task Reporting

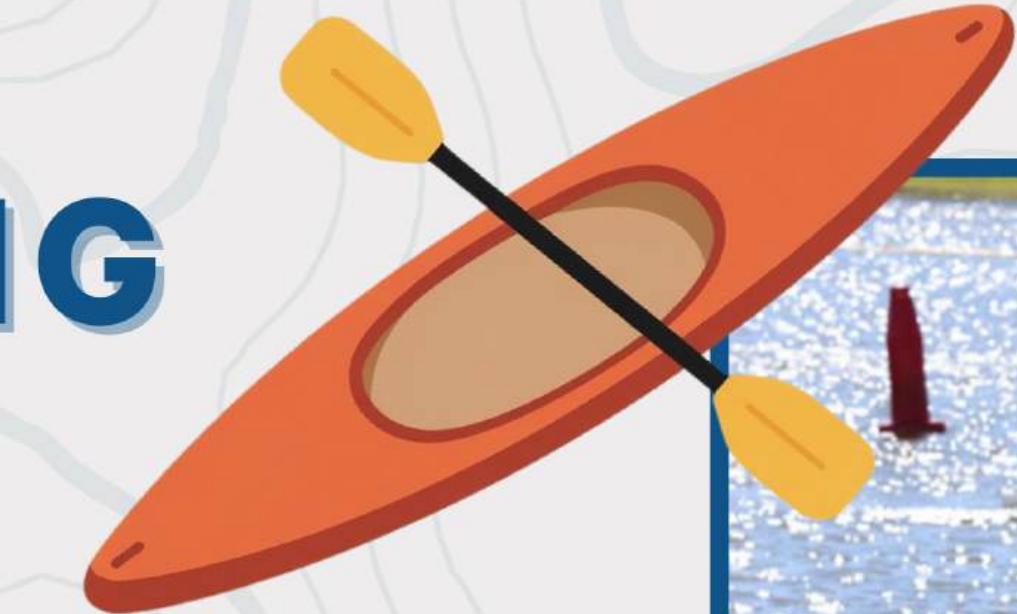
- Keep RoboBoats inside course and away from other boats
- Report on task completion to officials

► RoboBoat Recovery

- Boats break and need rescue
- Know where the shutoff is located

► Lots of sun time!

- Hydrated, Sunscreen, Cover up!



FRIDAY SCHEDULE

Day 2, February 20



Event	Time	Location
Facility Open to Teams	7:30 am	NBP - Team Village
Mandatory Team Meeting	7:45 am	NBP - Team Village
Safety Inspections Practice/Qualifying Round Design Presentations System Assessments Individual Team Photos	8:00 am - 12:00 pm 1:00 pm - 5:00 pm	NBP - Competition Courses NBP - Finish Tower
Group Photo	11:30 am	NBP - Team Village
Break/Lunch	12:00 pm - 1:00 pm	
Mandatory Team Meeting	5:00 pm	NBP - Team Village
Team Village Closes	5:30 pm	
Overnight Pool Testing	10:00 pm - 2:00 am	Hotel Pool

PRESENTATION & ASSESSMENT SCHEDULE

Friday
0800 - 1700

Embry-Riddle Aeronautical Univ
Univ of Central Florida & Habrgty HS
Univ of Louisiana at Lafayette
Florida Atlantic Univ
Georgia Institute o Technology
Florida State Univ Panama City
Univ of Puerto Rico Mayaguez
James Martin HS
Lake Supeiror State Univ
Memorial Univ of Newfoundland
Navier USN
Massachusetts Inst of Technology
Humber Polytechnic
Advancing Science Tech & Art
Cornell Univ
Turkish Naval Academy
University of Michigan

Saturday
0800 - 1700

Institut Teknologi Sepuluh Nopember
Queen's Univ
Military Technical College
AGH Univ of Krakow
Univ of Pittsburgh
Gdansk Univ of Technology
Tecnologico de Monterrey
Universitas Sebelas Maret
Benedict College
Adana Alparsian Turkes Sci & Tech
Beaver Country Day School
Konya Teknik Univ | Eternal
Tech Autocrats
Kyushu Inst of Technology
Konya Technical Univ | Pruva
Dreams of Bangladesh
Alanya Aladdin Keykubat Univ
Calibrator-Z

Sunday
0800 - 0900

Piri Reis Univ
Polynomial Institute

**Teams must be on time.
Schedule is tight!**



Download Schedule



Questions? Submit on Discord.

SCHEDULES

overall

presentation & assessment

team photos

DATE	TIME	EVENT	LOCATION
Wednesday, February 18	All Day	Team Travel Day & Hotel Check-in Team Village Closed	
Thursday, February 19	12:30 pm – 1:00 pm	Team Check-in	NBP – Team Village
	1:00 pm – 2:00 pm	Team Orientation	NBP – Team Village
	2:00 pm – 3:00 pm	Team Networking	NBP – Team Village
	2:00 pm – 5:00 pm	Team Village Open – Safety Checks Begin	NBP – Team Village
	3:00 pm – 4:00 pm	Judge's Training	NBP – Finish Tower
	3:00 pm – 4:00 pm	Kayak Training	NBP
	5:00 pm – 5:30 pm	Daily Team Meeting (Mandatory: 1 team representative)	NBP – Finish Tower
	5:30 pm	Team Village Closed	
	10:00 pm – 2:00 am	Overnight Pool Testing	Hotel Pool
Friday, February 20	7:30 am	Facility Open to Teams	NBP
	7:45 am	Daily Team Meeting (Mandatory: 1 team representative)	NBP – Team Village
	8:00 am – 12:00 pm	Safety Inspections & Practice / Qualifying Courses Open	NBP – Competition Courses
	8:00 am – 12:00 pm	Design Presentations & System Assessments Assigned times found here: roboboat.org/2026	NBP – Finish Tower
	8:00 am – 9:00 pm	Individual Team Photos (Assigned times) Assigned times found here: roboboat.org/2026	
	10:00 am – 2:00 pm	Media Day	NBP
	11:30 am	Group Photo (Teams, Volunteers)	NBP – Team Village
	12:00 pm – 1:00 pm	Break / lunch	
	1:00 pm – 5:00 pm	Safety Inspections & Autonomy Challenge Practice & Qualifying	NBP – Competition Courses
	1:00 pm – 5:00 pm	Team Design Presentations & System Assessments	NBP – Finish Tower
	5:00 pm – 5:30 pm	Daily Team Meeting (Mandatory: 1 team representative)	NBP – Team Village
	10:00 pm – 2:00 am	Overnight Pool Testing	Hotel Pool
Saturday, February 21	7:30 am	Facility Open to Teams	NBP
	7:45 am	Daily Team Meeting (Mandatory: 1 team representative)	NBP – Team Village
	8:00 am – 12:00 pm	Safety Inspections & Practice / Qualifying Courses Open	NBP – Competition Courses
	8:00 am – 12:00 pm	Design Presentations & System Assessments Assigned times found here: roboboat.org/2026	NBP – Finish Tower
	12:00 pm – 1:00 pm	Break / Lunch	
	1:00 pm – 5:00 pm	Safety Inspections & Autonomy Challenge Practice & Qualifying	NBP – Competition Courses
	1:00 pm – 5:00 pm	Team Design Presentations & System Assessments	NBP – Finish Tower
	5:00 pm – 5:30 pm	Daily Team Meeting (Mandatory: 1 team representative)	NBP – Team Village
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Last Updated: 01/30/2026																																																																																			
<p>Teams are assigned back-to-back 15-minute design presentation and 15-minute system assessment time slots. Refer to the Team Handbook for requirements and scoring rubrics: roboboat.org/handbook.</p> <ol style="list-style-type: none"> Presentations – 5th Floor, Finish Tower <ul style="list-style-type: none"> 10-minute presentation, 5-minute judge Q&A for <u>total 15 minutes</u> Arrive Early: Teams are asked to arrive <u>10 minutes</u> before their presentation start time Team's ASV is <u>optional</u> at presentation Assessments – Team Village <ul style="list-style-type: none"> Team's ASV is <u>required</u> at assessment 																																																																																			
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Team Photo Timeslot	TEAM
Location: Outside Team Village	
0800	Lake Superior State University Team AMORE
0810	Memorial University of Newfoundland Iceberg ASV
0820	Navier USN Navier USN
0830	Massachusetts Institute of Technology MIT Arcturus
0840	Humber Polytechnic Humber ASV
BREAK (10 minutes)	
0900	Advancing Science Technology & Art Team Inspiration
0910	Cornell University Cornell AutoBoat
0920	Turkish Naval Academy BlueHomeland
0930	University of Michigan UM:Autonomy
0940	Adana Alparslan Türkeş Science and Technology University KAAN Technology Club
BREAK (10 minutes)	
1000	Beaver Country Day School Beaver AUV
1010	Konya Teknik Üniversitesi Kapsül Yazgit Eternel
1020	Tech Autocrats BengalBoat
1030	Kyushu Institute of Technology OUXT-Polaris
1040	Konya Technical University Kapsül Yazgit Priva
BREAK (10 minutes)	
1100	Dreams of Bangladesh DoB Jol Jan
1110	Alanya Alaaddin Keykubat University ZeroneTech Kılıç
1130 GROUP PHOTO	
1300	Embry-Riddle Aeronautical University Team Minion
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1320	University of Louisiana at Lafayette Team Katrina
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1340	Georgia Institute of Technology Marine Robotics Group
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1410	University of Puerto Rico Mayaguez UPRM Roboboat Team
1420	James Martin High School MHS SEALs
1430	Institut Teknologi Sepuluh Nopember Barunastra ITS
1440	Queen's University aQuonomous

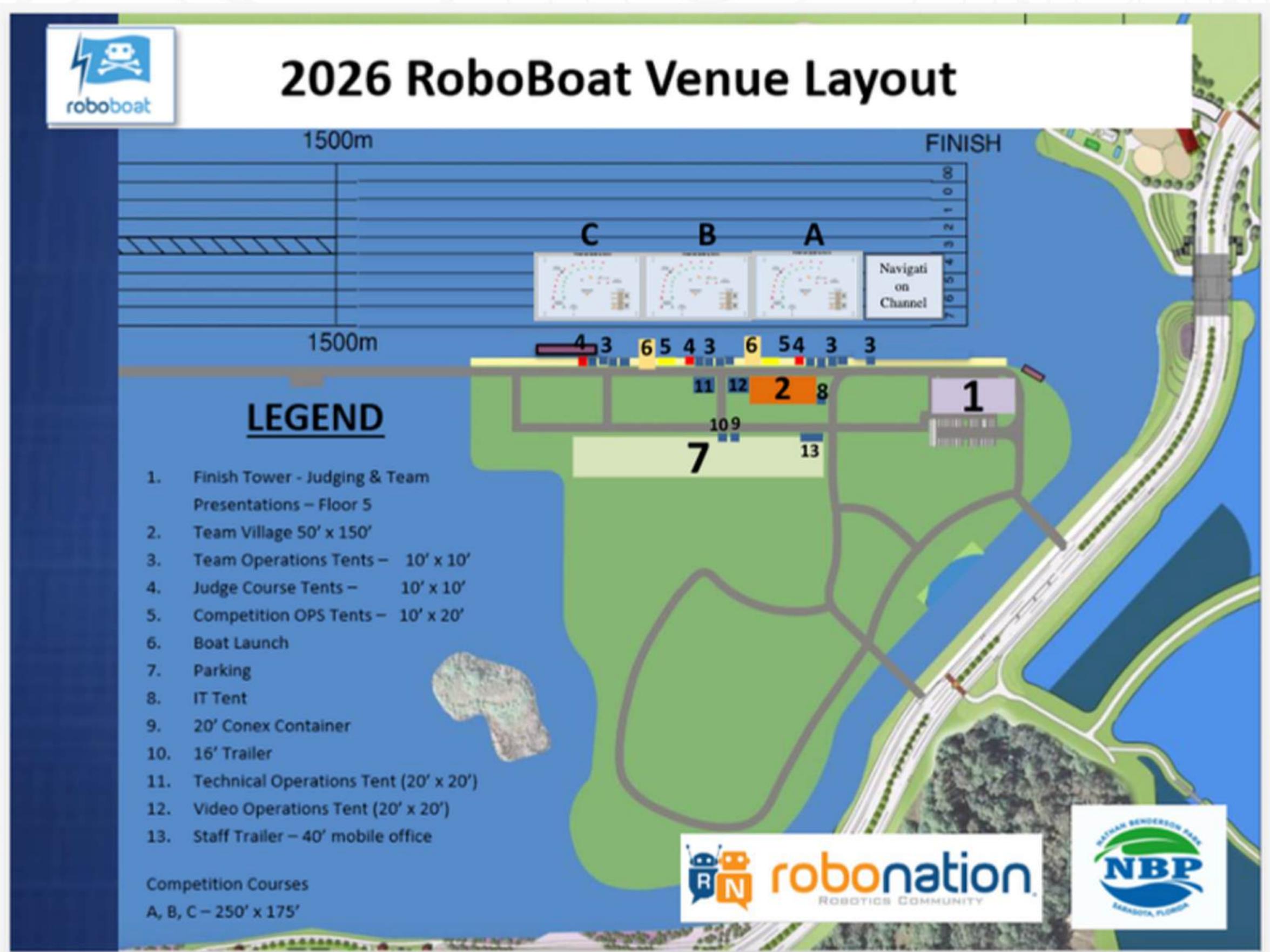


Download Schedules



Questions? Submit on Discord.

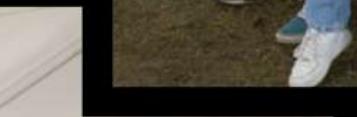
VENUE LAYOUT



TEAM VILLAGE



- 10' x 10' working space
- 2 tables / 7 chairs
- 1 electrical outlet
- Wireless Internet



Team Village Hours: 7:30 am - 5:30pm
(Opening at 2:00 pm on Thursday)

OVERNIGHT POOL TESTING

Open to all RoboBoat Teams

Be sure to follow pool rules



Magnolia Pointe, BW Signature Collection

Thursday, February 19 - Monday, February 23
10:00 p.m. - 2:00 a.m.

SHIPPING

- Equipment may be shipped to the event hotel (Magnolia Pointe).
- **IMPORTANT DATES**
 - **Shipment Arrival - February 16 (no earlier)**
 - **Crate Storage - February 16-19, 24-25**
 - **Outbound Shipping - February 25**
- **Shipping Guidelines**
- **Outbound shipping - Ensure that outbound shipping is arranged before you get onsite!**
- **Batteries are exceptionally difficult to ship.**

FINALIZE OUTBOUND SHIPPING NOW!

FROM: School Name
Address
City, State Zip Code
Country



Magnolia Pointe, BW Signature Collection
Attn: RoboBoat / School Name
5965 Brookhill Boulevard
Sarasota, Florida 34232

On-Site Team POC Name

Phone Number:

example of inbound shipping label

BE PREARED

- In February, Sarasota generally experiences mild, sunny, and dry weather, making it one of the best times to visit. Daytime temperatures typically reach the low to mid-70s°F (22-24°C), while evenings are cooler, often dipping into the 50s°F (10-15°C).
 - Always be prepared. Pack a jacket and dress in layers.
- **Wear shoes with sturdy soles.**
- **Avoid sunburn.** Bring sunscreen, hat, long-sleeved UV shirt to protect yourself.
- **Hydrate! Hydrate!! Hydrate!!!** Bring your own water bottle. Water will be provided in team village.
- **Meals Not Provided at Venue.** Eat regular meals as much as possible. There are restaurants close to the venue. Or purchase groceries at any of the local markets and pack your lunch to eat in Team Village.

TRAVEL CONSIDERATIONS

VISA Process

- Finalize now!
- Familiarize yourself with all travel requirements: travel.state.gov.

Invitation Letter

- Teams may request invitations letters when officially registered and registration fee is paid.
- During Team Member Registration, each team member may request an invitation.

Travel Documentation

- Keep your travel documentation, identification, and invitation letter on your person at all times.



TRANSPORTING YOUR ASV

Teams must provide a cart to move the vehicle around the competition site.

- Cart must be manually propelled on site, no motorized carts.
- Cart's handle must be solid, no rope or chain.
- Cart's width must be less than thirty-six (36) inches.
- Carts are recommended to have six (6) inch (or more) diameter rubberized wheels.
- Carts may have to travel on concrete, dirt and grass surfaces and may also be submerged and sink in water when you launch and recover your boat.



“utility garden carts” available at most hardware stores

~\$100-200 USD

WIRELESS EMERGENCY STOP

Please remember your Wireless Emergency stop system must fail safe. These products usually DO NOT and will not pass safety inspection.

I will be asking you to pull the battery on the transmitter and prove that the boat will stop.



NO EXTERNAL CONNECTIONS.

Reminder no external connections to the internet are allowed from your boat during scoring runs. This includes differential GPS data from the internet (including LTE connections). These type of GPS receivers are not allowed to be used and will be part of initial inspections.



AGENDA

Edit your name to “Name | Team Name”
For example: John | University of RoboNation

EVENT REMINDERS

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AUTONOMY CHALLENGE & SCORING

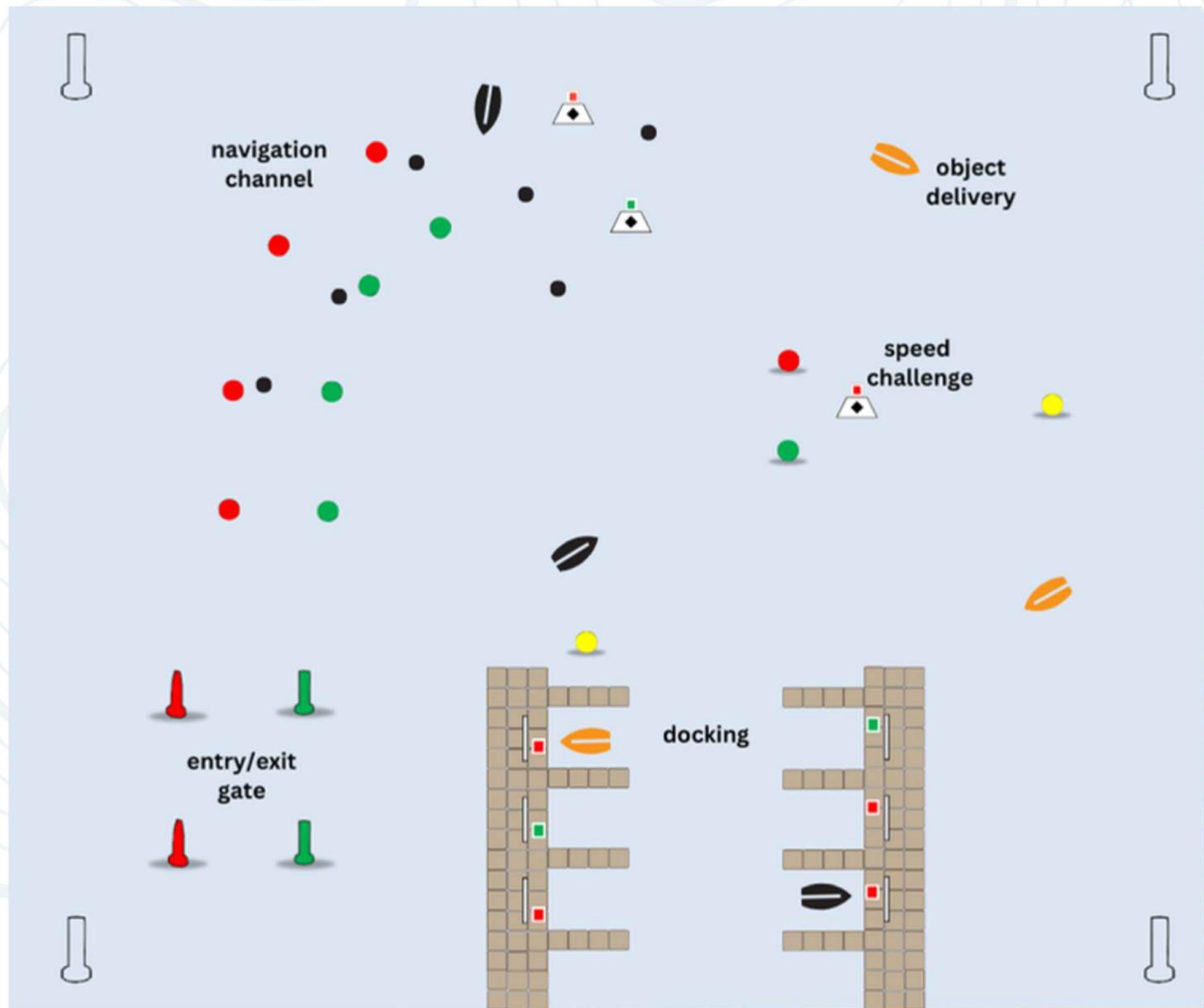
Overview of autonomy challenge and scoring.

QUESTIONS?



Questions? Submit on Discord.

COURSE LAYOUT



QUALIFYING VS SEMIS/FINALS

Qualifying Round

- **Individual Tasks:**
 - Teams attempt completion on individual tasks in any order
 - Teams sign up to practice on individual tasks - multiple boats could be on one course
- **Qualification Criteria:**
 - Core capabilities of 2 individual tasks
 - Advanced capabilities of 2 individual tasks
 - 2 tasks in sequence autonomously
 - Send heartbeat message
- **Qualification Status:** A tracker will be on digital sheet
roboboat.org/course-schedule

Semi-Finals Round

- **Autonomous Score Runs:**
 - ASVs operate autonomously throughout entire run, enter through gates in Nav Channel
 - No remote-control surveying
 - Only one team on one course
- **Choosing Semis Time Slots:**

During evening Team Meetings before Sun/Mon, qualified teams will select their time slots.
- **Wild Card:** Teams who have not qualified yet, are encouraged to still work toward qualifying and earning a wild card semi-finals spot for Sunday and/or Monday!

Finals Round

- **Autonomous Score Runs:**
 - ASVs operate autonomously throughout entire run, enter through gates in Nav Channel
 - No remote-control surveying
 - Only one team on one course
- **Choosing Finals Time Slots:**

Monday evening, judges will determine which teams advance to Finals based off Semis scores. Finalists will select their time slots.
- **Wild Card:** If a Wild Card slot is available, details will be announced Monday evening on how to earn a Wild Card.

SCORING:

Task / Measurement	Performance Measure	Point Calculation	Potential Points
Weight measurement	Weight (W)	See Section 3.1.3 in Handbook	Vehicle Dependent
Thrust measurement	Generate pounds of thrust (in lbs) (Th)	$100*(Th/W)$	
Obstacle Strike	ASV strikes buoy or obstacle (S) Exceptions: <ul style="list-style-type: none">• Dock• Yellow Buoys (Harbor Alert)	25*S (Max: 20)	-500-0

SCORING: TASK 1

Task / Measurement	Performance Measure	Potential Points
Task 1 Evacuation Route & Return Entry & Exit Gate	ASV navigates through both entry gates at start of run	0,100
	ASV transmits message reporting time and position of completion of entry gates	0,100
	ASV returns to gates and navigates through exit gates at end of run	0,200
	ASV transmits heartbeat message reporting time and position of completion of exit gates	0,100

SCORING: TASK 2

Task / Measurement	Performance Measure	Potential Points
Task 2 Debris Clearance Navigation Channel	ASV enters debris field thru channel, maneuvering thru all gates	0,100
	ASV exits debris field thru channel, maneuvering thru all gates	0,100
	ASV detects red debris, avoids buoy (no circling) and transmits reporting location (latitude/longitude)	0,100
	ASV detects green debris, circles buoy (360 turn) and transmits message reporting location (latitude/longitude)	0,200
	ASV transmits message reporting location (latitude/longitude) of all debris (color indicators and black buoys)	0,200

SCORING: TASK 3

Task / Measurement	Performance Measure	Point Calculation	Potential Points
Task 3 Emergency Response Spring Speed Challenge	ASV passes through gate, circles yellow buoy and exits through gate		0,200
	ASV circles yellow buoy in correct direction: <ul style="list-style-type: none">• red = circle from right• green = circle from left		0,150
	Task completion time (T)	250-T	
	ASV transmits message reporting color of indicator and time of response		0,100

SCORING: TASK 4

Task / Measurement	Performance Measure	Potential Points
	ASV delivers ball (B) to each black vessel (max: 3)	1st vessel: 75 2 nd vessel: 125 3 rd vessel: 200
Task 4 Supply Drop Object Delivery	ASV delivers water (W) to each orange vessel (max: 3)	1st vessel: 75 2 nd vessel: 125 3 rd vessel: 200
	ASV transmits message reporting location and color of vessel and type of delivery (ball or water) (points awarded once)	0,100

SCORING: TASK 5

Task / Measurement	Performance Measure	Potential Points
	ASV enters any, unoccupied docking bay (points awarded once)	0,50
	ASV docks in slip with green color indicator	0,200
Task 5 Navigate the Marina Docking	ASV docks in slip with green color indicator & lowest number sign available	0,350
	ASV transmits message reporting dock (N or S) and slip number (Slip 1, 2, or 3)	0,100

SCORING: TASK 6

Task / Measurement	Performance Measure	Potential Points
Task 6 Harbor Alert Sound Signal	ASV detects and classifies audible signal (1 vs 2 blasts) and abandons task, overrides behavior and navigates safely to EITHER zone/task	0,150
	ASV detects and classifies audible signal (1 vs 2 blasts) and abandons task, overrides behavior and navigates safely to CORRECT zone/task	0,300
	ASV transmits heartbeat message reporting confirmation of signal	0,150

SCORING: INTER-VEHICLE COMMS

Task / Measurement	Performance Measure	Potential Points
Inter-Vehicle Communication	ASV communicates with a second ASV <ul style="list-style-type: none">• Core (1-33% of points)• Advanced (34-66% of points)• Disruptive (67-100% of points)	0-500

SCORING BREAKDOWN

Multiple Vehicles

Both vehicles must successfully qualify as independent vehicles to be eligible to compete in Semi-Finals. During Semi-Finals / Finals:

- both vehicles are weighed independently and points earned are combined.
- both vehicles must pass through entry gate to start scored run in Semi-Finals / Finals.
- both vehicles are assigned the same timeslot, but are judged and scored independently.
- teams only earn points for each task once.

Example: Both vehicles start the run passing through the entry gates - the team is only awarded 100 points for this behavior.

STAY UPDATED

ALL THINGS ROBOBOAT

For all the latest information and updates for the competitions season, visit the RoboBoat website!



roboboat.org

DISCORD

Stay connected and updated with the RoboBoat Discord. Scan the QR code to get started!



JOIN TODAY!

- Scan the QR code
- Select the RoboBoat role
- Turn on notifications!



robonation.org/discord

SIGN UP FOR TECH TALK!

IT'S ABOUT YOU & ROBOBOAT

5-15 minute informal talk focused on sharing experiences and ideas with RoboBoat community.

- Your 2026 RoboBoat project
- Technical or fundraising challenges
- Community outreach efforts
- Recruiting

Slots are available February 19-23.

RSVP: <https://wkf.ms/3u3wFNa>



QUESTIONS?



QUESTIONS?

- For the Harbor Alert Task, I wanted to confirm how loud the beeps will be as 60 dB is rather quiet.
- Where will the speakers be located on the course for the Harbor Alert Task?

See
you in
Sarasota!





seaperch



seaglide



gosense



roboboat



robosub



robotX



IGVC



SUSAS



IARC

RoboNation is a 501c3 nonprofit organization whose mission is to provide a pathway of hands-on educational experiences that empower students to find innovative solutions to global challenges. Working together with the industry, research and educators, we have grown to include over nine student competitions and programs and engage more than 250,000 students per year.

For more information contact competitions@robonation.org